GB2004/002633

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 G02B6/35

According to International Patent Classification (IPC) or to both national classification and IPC

#### B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC  $\,7\,$  G02B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.	
X	US 2002/057862 A1 (OKAYAMA HIDEAKI) 16 May 2002 (2002-05-16) paragraphs '0218!, '0221!, '0222!, '0224!, '0235!, '0245!, '0247!; figures 20,24	1-9, 11-13	
Y	the whole document	14-16	
X	US 2002/191894 A1 (CULVER WILLIAM H ET AL) 19 December 2002 (2002-12-19) paragraphs '0012!, '0014!, '0035!, '0038!; figures 3,5a	1-4,9,10	
Υ	US 6 005 998 A (LEE BYUNG H) 21 December 1999 (1999-12-21) column 3, line 53 - line 62; figures 5,12 column 6, line 22 - line 51	14–16	

Further documents are listed in the continuation of box C.	X Patent family members are listed in annex.		
Special categories of cited documents:  'A' document defining the general state of the art which is not considered to be of particular relevance  'E' earlier document but published on or after the international filing date  'L' document which may throw doubts on priority clalm(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  'O' document referring to an oral disclosure, use, exhibition or other means  'P' document published prior to the international filing date but later than the priority date claimed	<ul> <li>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</li> <li>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is taken alone cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</li> <li>"&amp;" document member of the same patent family</li> </ul>		
Date of the actual completion of the international search  21 September 2004	Date of mailing of the international search report  14/10/2004		
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2  NL – 2280 HV Rijswijk  Tel. (+31–70) 340–2040, Tx. 31 651 epo nl,  Fax: (+31–70) 340–3016	Authorized officer  Blau, G		

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'GB2004/002633

C.(Continua	tion) DOCUMENTS CONSIDERED TO BE RELEVANT	4D20047 002033		
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.		
A	EP 1 271 203 A (LUCENT TECHNOLOGIES INC) 2 January 2003 (2003-01-02) paragraphs '0006!, '0007!, '0041!; figure 1	1-8,13		
A .	US 2002/090169 A1 (IYER RAJIVE ET AL) 11 July 2002 (2002-07-11) paragraphs '0073!, '0075!, '0077!, '0085!, '0086!, '0088!; figures 9-11	1-8,10, 13		
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1

PCT/GB2004/002633

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. X Claims Nos.: 17 because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  See FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of Item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

International Application No. PCT/GB2004 /002633

#### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 17

Claim 17 refers to an optical switch "as described or illustrated in any appropriate combination of the accompanying text and/or drawings" which is indeterminate and the claim does not contain a single technical feature or combination of technical features which render a meaningful search and examination with respect to claim 17 possible.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

Information on patent family members

GB2004/002633

	Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US	2002057862	A1	16-05-2002	JP US	2002214546 A 2002093723 A1	31-07-2002 18-07-2002
US	2002191894	A1	19-12-2002	US	6430328 B1	06-08-2002
US	6005998	Α	21-12-1999	NONE		
EP	1271203	Α	02-01-2003	CA CN DE EP JP	2384172 A1 1393712 A 60200860 D1 1271203 A1 2003043384 A	29-12-2002 29-01-2003 09-09-2004 02-01-2003 13-02-2003
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